

09/466.628

Figure 1

09/446628

Figure 2

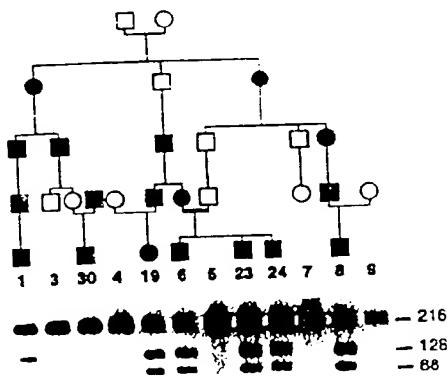
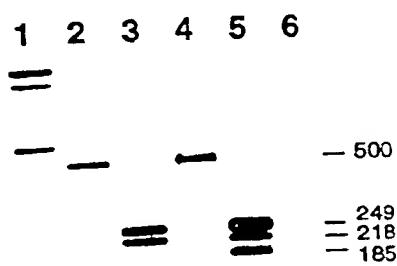
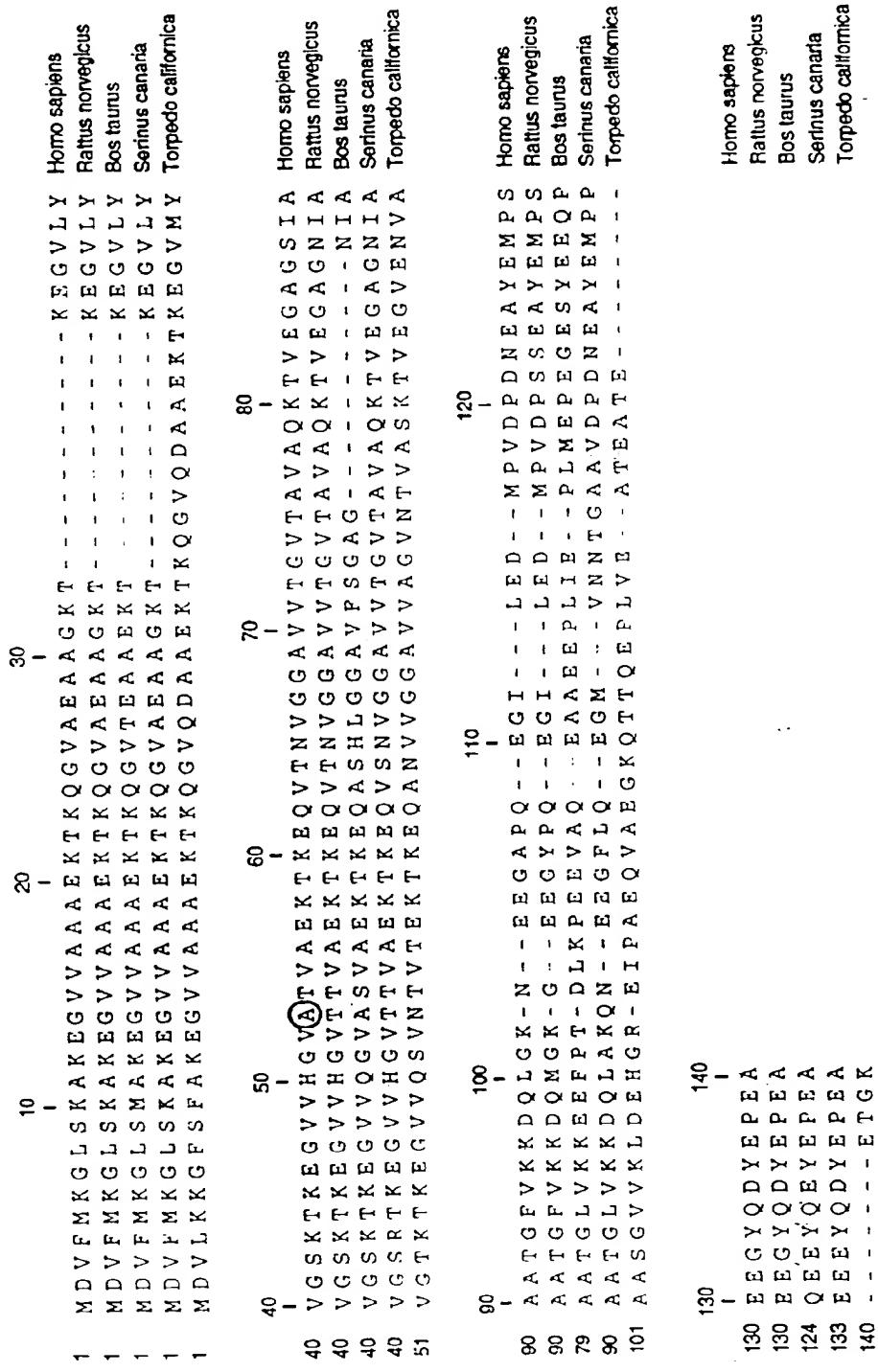


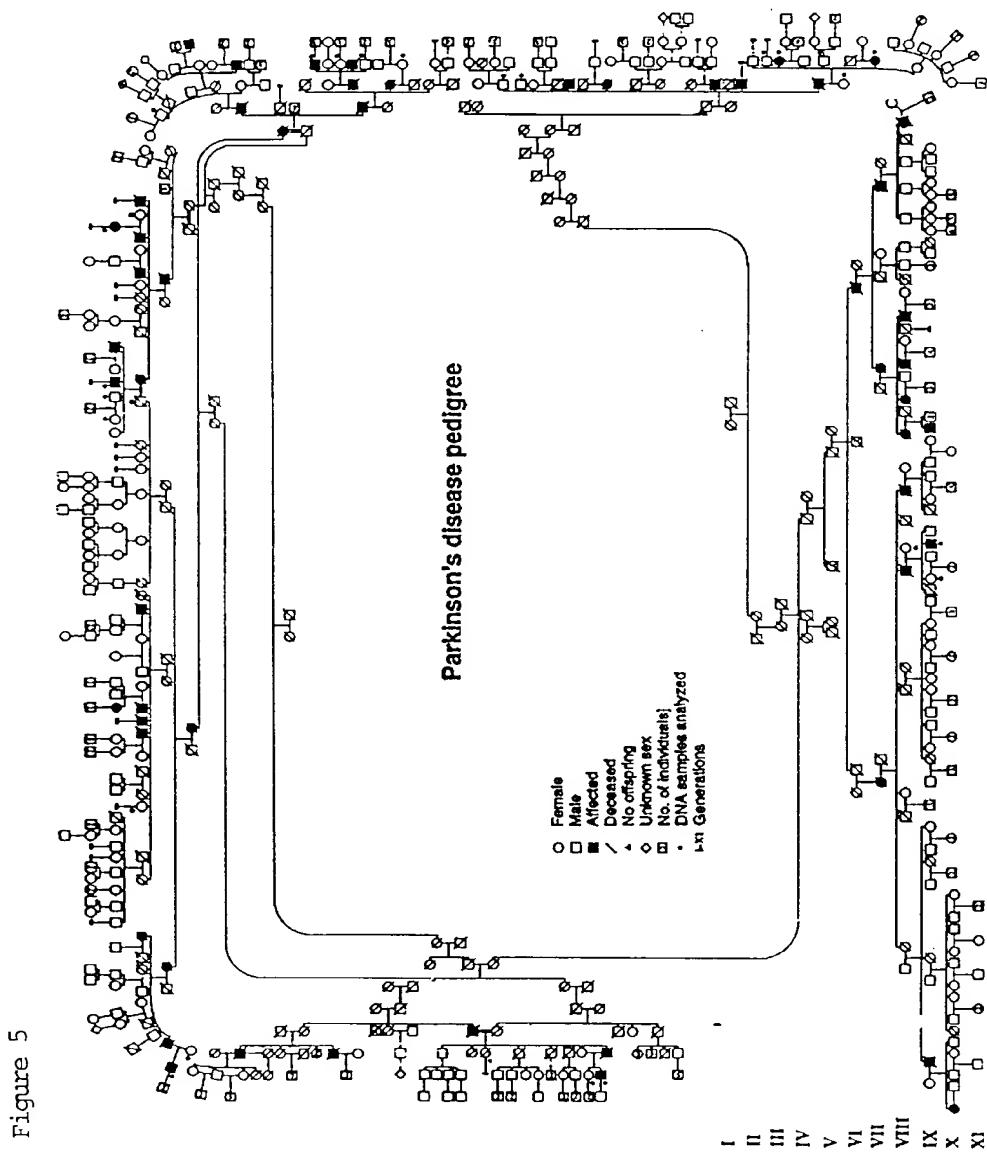
Figure 3



09/446628

Figure 4





09/446628

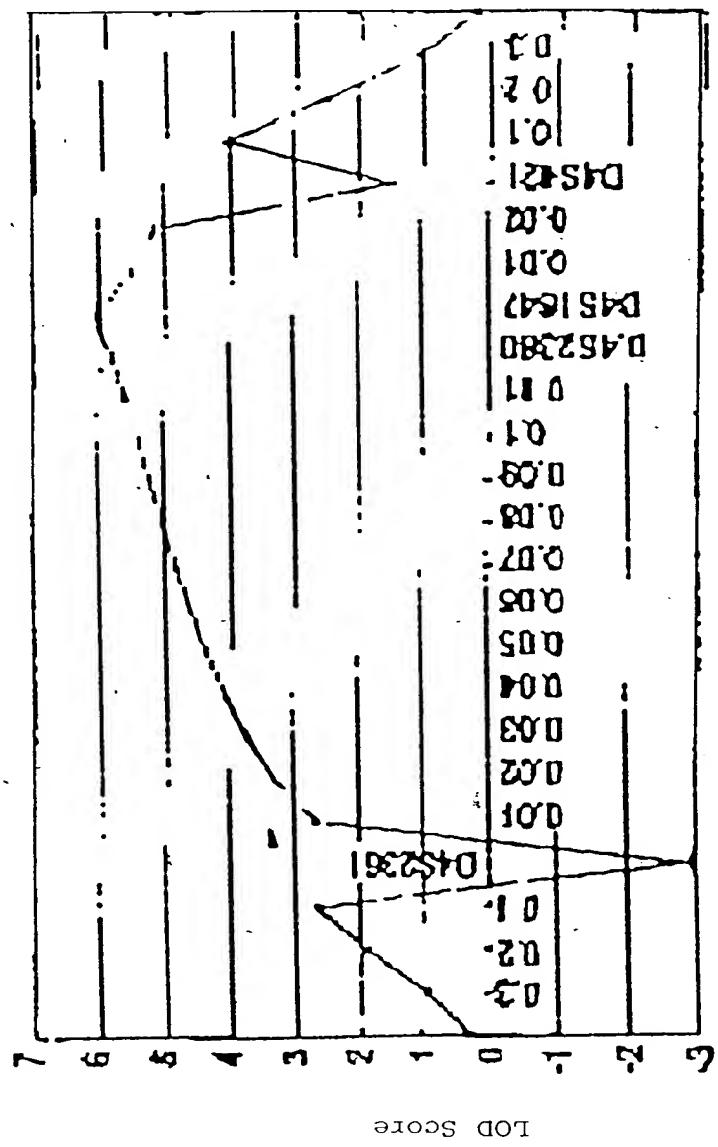


Figure 6

Figure 7

clone	5'	3'	gene
109979	T84229	T88834	alpha
111088	T83410		alpha
111090	T83411	T81593	alpha
130048	R11619	(R19409)	alpha
135534	R31354	R32856	alpha
141246	R66663	R67383	alpha
145594	R78091	R77746	alpha
171906	H19290	H19291	beta
172284	H19556	H19474	beta
172749		H19685	beta
175546		H41126	beta
193174	H47503	H47504	alpha
210768	H66914	H66869	alpha
213616	H70324	H70325	alpha
236027	H62070		alpha
248153	N53829	N73325	alpha
24991	(T80528)	R39000	alpha
26298	R13508	(R20629)	alpha
265817	N28661	N21457	alpha
266628		N22757	alpha
27342		R37173	alpha
280344	(N50305)	N47094	alpha
290694		N72005	alpha
294142		N68597	alpha
307787	W21278		alpha
340635	W56712	W56757	alpha
340683	W55988	W56276	alpha
346647	W94390	W74638	alpha
346796	W79685	W79784	alpha
359349	AA010546	AA010547	alpha
364632	AA022809	AA022690	alpha
39915		R50455	beta
40764	R56327	R56245	alpha
45086	H08908	H08824	alpha
48607	H10267	H10213	alpha
49811	H29080	H28976	alpha
50202		H17962	beta
50470		H16811	beta
66473	R16018	R16119	alpha
667794	AA258686	AA258608	alpha
69907	T48654	T48655	alpha
72391	AA394097	AA293803	gamma
739009	AA421586		beta
739014	(AA42185)	AA421567	beta
771303		AA443638	gamma
2-4		L36675	alpha
2-5		L36674	alpha
c-01f06		F01363	alpha
c-1rb08	F03254	F06981	alpha
c-2td12	F08836	F11169	alpha
c-28f08	F03751	F07521	alpha
cDNA	S69965		beta
EST01420 (HRBAA27)	M79265		gamma
EST19193	AA317129		beta
EST22040	AA319774		alpha

Figure 7 cont.

EST26845	T28079		beta
EST31489	AA328063		alpha
EST68G11	W22518		gamma
F1-625D	R29481		alpha
GEN-129D09	D81090		beta
hbc590	T11070		alpha
HIBBA65	T08213	T08212	alpha
	HR70E3R	HR70E3F	alpha
HSNACP0		U46896- 46901	alpha
KK1311	N83633		alpha
		D318839	alpha
		L08850	alpha
	T28735		alpha
	Z20502		alpha

Figure 8

Figure 8 displays a sequence of DNA or RNA with numbered positions from 10 to 2870. The sequence is presented in multiple lines, with each line representing a segment of the sequence. The positions are marked at the top of each line, and the sequence itself is shown below the positions. The sequence is as follows:

```

10 20 30 40 50 60 70
CGCCCGACCCGCGCTCCATCCCAGCCCCGGCCCCGCATCCGGTTGGAAAGGGGGCTGCAAGTTGCA 70
AGGGGCCCCGGAXAAAAAXCAGCAGTGGCCCTCCCGCTCCAGGGTTCAAGGGACGCTAGGAXT 140
TCCGCGCCCTGGAGGTICGCACTGGGAGTGGGGTAGATGGGGAAAGCAGGGAGGGGCTCAGGGTC 210
CAGAAGGGCXCCCGCGTCTCGGGAGTAGGGGGCATXTCGTCCCAGGGGGCTGGGGTGAAGGTGC 280
GGGGCCAGTGCACCGGTGCCGTATCGCCCTCCCCAGGGCCAGGATGGACGTGTCATGAAGGGCC 350
360 370 380 390 400 410 420
TGTCCATGGCAAGGAGGGCGTTGGCAGCCGGAGAAAACCAAGCAGGGGTACCGAGGGCGGCCA 420
GAAGACCAAGGAGGGCGTCTACGTCGGTGGGCGXGGGCGXGGGTTCTGGGGCTGCAAGGGCTGGGG 490
TCCCCCTACAGTGTGGAGCTGGGCGGCTCGGGAGGGGGCTGGGCAAGATAATATXACTCAGC 560
AGATGGGGCXAGGTCAXCAXGGGTATAAGGGACATACCCAXCCATAGAACXCTGGGTCTGTATCCGA 630
AATGGGGACACGGGGGGGCTGAGTGGGGCTTCACTGAAGGCCAGGGACAXTCATA 700
710 720 730 740 750 760 770
AAAXCACACAXCCTCTTTCTIATCTTTTACATTATAATAGTTATCTGGTGTGAACACTTTCT 770
GTATGCCAAGTACTGGTAAAATGTCAAAACATCCATTCTCATGTAATGCTCCGCCATTCTACAGG 840
TAAGGGAAAATGGGCTTCCATTGGTAGXTAAATTAGGTTAGAAAGGCTTGAATTGAATGTCAGTTC 910
AGCCAATTCTTAGTGGTGAACCAAACATGAGTTCATCGTGAACAGGGGACAATAACAGCACCCGCTT 980
CCCAGGGCTGGGGAAAAGTGAAGTGCAGCGGGGAGGAGACTTGACACAGCACTGGCCCTCAGCCA 1050
1060 1070 1080 1090 1100 1110 1120
ACATCCACTAGAGGGGGTGGGTATCGCATCAGGTGGGAGAGAACTGCAACCCCTGCAGACAGAGGTGTG 1120
GGCCCGAGTGCAGTGATAAGACGGGGTTAACATGGGGTGCAGGTTAGGATXTGGGACCCAAGGAGG 1190
CACTGACGGGGGCCAGGATGCCACTCTGTAATACCATGCTGTGCTGGAGTTCTGTCCCAGCGAG 1260
AGTCCTAAATGTGCCGCTTTCTXCCCGAGGAAGAACGACGGGAGAAGGTGTGTTACAAGGTGTGG 1330
CITCAGGTACTAGCCCAGCCCTGGCACCGCCCTCTCAMTTCAGGGATGATCTGGGGAAACAG 1400
1410 1420 1430 1440 1450 1460 1470
AGGGGGGGGGGGGGAGACTCCAAGGTTCTGCGGAATGCTCCGTGGGGAGGGCAGGCCCTGGGATA 1470
CTACAAGGCAGGGCATGGTGTTCCTCTGGCTCCAAACCCCTTCACCTGGGAGAGCTGTGTTCTGGGGCAGGGAAACATCGCA 1540
GGCTGAAAAAACCAAGGAACAGGCCACATCTGGGAGAGCTGTGTTCTGGGGCAGGGAAACATCGCA 1610
GCAGCCACAGGACTGGTGAAGGGAGGAATTCCCTACTGATCTGAAGGTAAAGCAGTCTGACCCGC 1680
ACATGCAGGAAACACACACACACACACACACACACCXGCACACAAATAACCTGTCAACATCCCCG 1750
1760 1770 1780 1790 1800 1810 1820
CCCCCTTAATCTGCCACCAAGCTTGGAACACAAGCCACTTCCCTCCATCTGCXGGCCCGTGTAGAC 1820
TCAGCTCAGAATTCATCTGAATAAXGGCGTCAGGGTGTGACGCTCCGGTGTGGGGACCCAGACCTG 1890
GCTGCTCGGTGATCTGCTGCCAGCTGACCCATATGACTTCTGGCCACGCTGTGATGTGTCATGA 1960
TTGTTCATTCATTCTTTCAATTCAACAAATATCCATGCCAXXCCAGCCCTGTCTTGAGCTTCCAGXT 2030
CCCTTCAGCCXAGGGAGCXTGAGGGTTATTTGGGGTCCCAGTCCCAGCACAGGCCTGACACAAA 2100
2110 2120 2130 2140 2150 2160 2170
GGATGAGGCATAAGCTGGTGAATGATCCAAATGGGAAGTGTGGAGGXTGCAGGATTGGGGAG 2170
CGGGGTGGAGAGCCAGCCCCAATCCATGTCGCACTTCAACTGTGATTGGGGAAATTCCCCCTCA 2240
CCTCATCCCCTCAAGGCACCTCAAAATAACTGAATTAGAAATTATCCTGTGTTGGCAACCCCA 2310
CCCTAGCCCTCCCCACTCAACCCACCCAAAGCTTACACTGTGGGAATTGGGGCAGTCTGGCTGTC 2380
CTCACGAGTCCTGACCTTTCTGCCACAGCCAGAGGAAGTGGCCAGGAAGCTGTGAAGAACACTGA 2450
2460 2470 2480 2490 2500 2510 2520
TTGAGCCCCCTGATGGAGCCAGAAGGGGGAGGTTATGAGGACCCACCCAGGAGGAATATCAGGAGTATGA 2520
GCCAGAGGCAGGGCTGTCTTAGACTCCCTCCCAATCACGAGATCTCCCTCCCTGAGGCAACCC 2590
CCAGAGCCAGGGCTGTCTTAGACTCCCTCCCAATCACGAGATCTCCCTCCCTGAGGCAACCC 2660
CCTCGGAGCCGTGTAGTGTCTGCCATCTGTCTGCTACCCGCCGCTCAACCCGGGGCATGGA 2730
CAGGGCCAGGGTTGCCGTGGGCTGGAGGCCCTGCCAGTGTGCTCTCCATCCAGCGTCTG 2800
2810 2820 2830 2840 2850 2860 2870
CGCG 2804

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Figure 9

10 20 30 40  
AGGGAGATCCAGCTCCGTCTGCCTGCAGCAGCACAAACCC 40  
TGCACACCCACCATGGATGTCTTCAGAAGGGCTTCTCCA 80  
TCGCCAAGGAGGGXGTGGTGGGTGCGGTGGAAAAGACCAA 120  
GCAGGGGGTGAACGGAAAGCAGCTGAGAAGACCAAGGAGGG 160  
GTCATGTATGTGGGATTACATTTTTTTAAAGAAAGAA 200  
210 220 230 240  
TAAATTAAATTGTGATTAAAGTTG 223

Figure 10

10 20 30 40  
TTTTTXAGGGGGAAACAGGAATAAAXAAAAXAXGGGG 40  
GGGGGTTTXXGGGGGGGGGGGGAAAAXGGTTXGGGGGX 80  
XAACXXAAAXAAAXXCCXAXGGGGGGGXXAXXAAXTT 120  
TGGGAACCCAAAGCCXAGGAGGATTXTXGTXAAXAACG 160  
TXACCTCXAGTGGXCGAGGAAGACCAAGGAAAXGCCAA 200  
210 220 230 240  
CXCGTTGAXCGAGGCTGTGGTGAACAXCGTXAACXCTG 240  
TGCCCXXCAAXAXCGTGGAGGXGGCGGAGAACATCSCGGT 280  
CACCTCAGGGTGGTGCAGCAGGAGGACTTGAGGCCATCT 320  
KCCCCCMACAGGAGGGTGTGGCATCCMAAGARAAAGAGG 360  
AAAGTGGCAGAGGAGGCCAGAGTGGGGARACTAGAGGGC 400  
410 420 430 440  
TACAGGCCAGCGTGGATGACCTGAAGAGCGCTCCTCTGCC 440  
TTGGACACCATCCCCTCCTAGCACAAGGAGTGGCGCCTT 480  
GAGTGACATGCGGCTGCCACGCTCCTGCCCTCGTCTTCC 520  
TGGCCACCCCTGGCCTGTCACCTGTGCTGCTGCCAAC 560  
CTCACTGCCCTCCCTCGGCCCCACCCACCCCTGGTCCTT 600  
610 620 630 640  
CTGACCCCACTTATGCTGCTGTGAATTITTTTTAAATG 640  
ATTCCAAATAAAACTTGAGCCCACCTCCAAAAAA 677

Figure 11  
alpha-SYN exons 1-2

10 20 30 40  
 AATTCAGCGATGCGAGGGCAAAGCGCTCTCGCGGTGCG 40  
 GTGTGAGCCACCTCCCGCGCTGCCTGTCTCCTCCAGCAG 80  
 CTCCCCAAGGGATAGGCTCTGCCCTGGTGGTCGACCCCTC 120  
 AGGCCCTCGNTCTCCAGGNCACTCTGACGAGGGGTAGG 160  
 GGGTGGTCCCCNGGAGGACCCAGAGGAAAGGCNGGGACAA 200  
 210 220 230 240  
 GAAGGGAGGGAAAGGGAAAGAGGAAGAGGCATCATCCCT 240  
 AGCCCAACCGCTCCCGATCTCCACAAGAGTGCTCGTGACC 280  
 CTAAACCTAACGTGAGGCAGAAAGCGCCCAACCTTTTC 320  
 CCGCCTTGNNCCAGGCAGGGCGTGGAGTTGATGGCTCAC 360  
 CCCGCGCCCTGCCCATCCCCATCCGAGATAGGGACGA 400  
 410 420 430 440  
 GGAGCACGCTGCAGGGAAAGCAGCGAGCGCCGGGAGAGGG 440  
 GCGGGCAGAACGCCTGACAAATCAGCGGTGGGGCGGAGA 480  
 GCCGAGGAGAACGGAGAACGGAGGAGGACTAGGAGGAGGAGG 520  
 ACGGCAGCACAGAACGGGCCAAGAGAGGGGGCGAGCG 560  
 ACCGAGCGCCCGCACGCGAAGTGAGGTGCGTGGGCTCA 600  
 610 620 630 640  
 GCGCAGACCCGGCCCGGCCCTCCCTGAGAGCGTCTGGG 640  
 CGCTCCCTCACGCCCTGCCTTCAGCCTTCTGCCTTCCA 680  
 CCCTCGTAGCGGAGAACCTGGAGTGGCCATTGACGACA 720  
 GGTTAGCGGGTTGCCTCCACTCCCCAGCCTCGCGTCG 760  
 CCGGCTCACAGCGGCCCTCCCTGGGGACAGTCCCCCGG 800  
 810 820 830 840  
 GTGCCCTCCGCCCTCCCTGCGCTCCTTTCTTCTTC 840  
 TTTCTTAAATATTATTGGAAATTGTTAAATTTTT 880  
 TTTAAAAAAAGAGAGAGGGCGNGGAGGAGTCGGAGTTGTG 920  
 GAGAACGAGGGACTCAGGTAAGTACCTGTGGATCTAAA 960  
 CGGGNGTCTTGGAAATCTGGAGAACGCCGGATGGAGAC 1000  
 1010 1020 1030 1040  
 GAATGGTCGTGGGNACGGGAGGGGTGGTGTGCCATGA 1040  
 GGACCGCTGGGCCAGGTCTCTGGGAGGTGAGTACTTGTC 1080  
 TTTGGGGAGCCTAAGGAAAGAGACTTGACCTGGCTTCGT 1120  
 CCTGCTTCTGATATTCCCTCTCCACAAGGGCTGAGAGNT 1160  
 TAGGCTGCTTCTCCGGGATCC 1181

Figure 11 cont.

## alpha-SYN exon 3

10 20 30 40  
CTTAAAAGAGTCTCACACTTGGAGGGTTCTCATGATT 40  
TTCAGTGTGTTTTGTTATTTTCCCCGAAAGTTCTCATT 80  
CAAAGTGTATTTATGTTTCCAGTGTGGTGTAAAGAAAT 120  
TCATTAGCCATGGATGTATTCAATGAAAGGACTTCAAAGG 160  
CCAAGGAGGGAGTTGGCTGCTGCTGAGAAAACCAACA 200  
210 220 230 240  
GGGTGTGGCAGAACGAGCAGGAAAGACAAAAGAGGGTGT 240  
CTCTATGTAGGTAGGTAAACCCCAAATGTCAGTTGGTGC 280  
TTGTTCATGAGTGATGGGTTAGGATAACAATACTCTAAAT 320  
GCTGGTAGTTCTCTCTTGATTCAATTTGCATCATTGC 360  
TTGTCAAAAGGTGGACTGAGTCAGAGGTATGTGTAGGTA 400  
410 420 430 440  
GGTGAATGTGAACGTGTGTATNTGAGCTAATAGTAAAAAT 440  
GCGACTGTTGCTTTCAAGATTTAATTTGCCTAATAT 480  
NTATGACTNTTAAATGAATGTTCTGTACTACATAATT 520  
CTATNTCAGAGACAGT 536

Figure 11 cont.

## alpha-SYN exon 4

10 20 30 40

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CTGCAGGTCAACGGATCTGTCCTAGTGCTGTACTTTAA 40  
AGCTTCTACAGTTCTGAATTCAAAATTATCTTCTCACTGG 80  
GCCCGGGTGTATCTCATTCTTTCTCCTCTGTAAGTT 120  
GACATGTGATGTGGGAACAAAGGGATAAAAGTCATTATTT 160  
TGTGCTAAAATCGTAATTGGAGAGGACCTCCTGTTAGCTG 200

210 220 230 240

---

GGCTTCTTCTATNTATTGTTGGTGGTTAGGAGTCCTTCT 240  
TCTAGTTTAGGATATATATATATATTTCCTTCCCT 280  
GAAGATATAATAATATATACTTCTGAAGATTGAGATT 320  
TTAAATTAGTTGATTGAAAAGTAGCTAATCAGCAATTAA 360  
AGGCTAGCTTGAGACTTATGCTTGAATTGTTTTGTTAG 400

410 420 430 440

---

GCTCCAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAAC 440  
AGGTAAGCTCCATTGTGCTTATATCAAAGATGATATNTAA 480  
AGTATCTAGTGATTAGTGTGGCCAGTATCAAGATTCTA 520  
TGAAATTGAAACAAATCACTGAGCATCTAAGAACATATC 560  
AGTCTTATTGAAACTGAATTCTTATAAAAGTATTTTAA 600

610 620 630 640

---

TAGGTAAATATTGATTATAAATAAAAAATATACTTGCCAA 640  
GAATAATGAG 650

Figure 11 cont.

alpha-SYN exon 5

10 20 30 40

---

ATATCTTAGCCAAGATTCAATGTTGGTTGAACCAACACTC 40  
ACTTGACATCTTGGTGGCTTTGTTCTTGACCACTCA 80  
GTTATCTATGGCATGTGTAGATACAGGTGTATGGAANGA 120  
TGGCTAGTGGAAAGTGGAAATGATTTAAAGTCACTGTTATTG 160  
TACCAACCCTTAATCTGTTGTTGCTCTTATTGTACCAAG 200

210 220 230 240

---

TGGCTGAGAAGACCAAAGAGCAAGTGACAAATGTTGGAGG 240  
AGCAGTGGTGACGGGTGTGACAGCAGTAGCCCAGAAGACA 280  
GTGGAGGGAGCAGGGAGCATTGCAGCAGCCACTGGCTTG 320  
TCAAAAAGGACCAGTTGGCAAGGTATGGCTGTACGTT 360  
TTGTGTTACATTATAAGCTGGTGAGATTACGGTTCAATT 400

410 420 430 440

---

TCATGTGAAGCCTGGAGGCAGGAGCAAGATACTTACTGTG 440  
GGGAACGGCTACCTGACCCCTCCCTTGTAAGAAAGTGCTA 480  
CCTTTATATTGGTCTTGCTTGT 504

Figure 11 cont.

alpha-SYN exon 6

10 20 30 40  
 AAAAGTTACATACTT GAGGTTGATAACCCATGTTGCCG 40  
 CAATGTTCCCCGGAGGCATTGTGGAGTTAGAATGCCAG 80  
 TAGTAATATTAAGGTGTGCCATTTCAGAGATCCGTGGCCA 120  
 ACATCCCTATATGTAAGATTTCAAAAACATGGTTCTGA 160  
 TTTTAAAGTGAAGAAATGCTACTTCATCATGTTCTTTT 200  
 210 220 230 240  
 GTGCTCTTACTTTAAATATTAGAATGAAGAAGGAGCCCC 240  
 ACAGGAAGGAATTCTGGAAGATATGCCTGTGGATCCTGAC 280  
 AATGAGGCTTATGAAATGCCTTCTGAGGTAGGAGTCCAAG 320  
 CTGAATCTTCTAACAGACAGTACCAAAACTGTCATT 360  
 GTCACATTTCTCTTCATTAGTGCTTAGTGAGAACATTTT 400  
 410 420 430 440  
 GCTCTCTACATGCTCATTACGTGGACAACTTGCAAGTTAA 440  
 GAATAGTTTTACATTTAAAGGGTCCTTAAAAAAAAG 480  
 AGGAGGAGGAAGATGAAGAAGAGGAAGAAAGGATGTAAAA 520  
 GAAATCATATGTAGTCCACATAGCTTAATATACTAC 560  
 TTGACCCCTTACAGGAAAGCTTACTAACCCCTGCATTA 600  
 610 620 630 640  
 GAGAATATATTTTGCAAAACATTGATTGAAATT 640  
 AGTGAAAGTGGGAGCCATTCTATCTCATTGGCTGTC 680  
 CAGTGCTGATGCGTAATTGAAACTTAACTAACAGTGTGT 720  
 GCTGTCT 727

Figure 11 cont.

## alpha-SYN exon 7

10 20 30 40

---

TTTGATTTCTAATATTAGGAAGGGTATCAAGACTACG 40  
 AACCTGAAGCCTAAGAAATATCTTGCTCCAGTTCTG 80  
 AGATCTGCTGACAGATGTTCCATCCTGTACAAGTGCTCAG 120  
 TTC CAATGTGCCAGTCATGACATTCTCAAAGTTTAC 160  
 AGTGTATCTCGAAGTCTTCATCAGCAGTGAAGCAT 200

210 220 230 240

---

CTGTACCTGCCCACTCAGCATTGGTGCTTCCCTTC 240  
 ACTGAAGTGAATACATGGTAGCAGGGTCTTGTGCTGT 280  
 GGATTTGTGGCTCAATCTACGATGTTAAAACAATTAA 320  
 AAACACCTAAGTGACTACCACATTCTAAATCCTCACT 360  
 ATTTTTTGTGCTGTTAGAAGTTGTTAGTGAATTG 400

410 420 430 440

---

CTATCATATATTATNAGATTTAGGTGTCTTTAATGAT 440  
 ACTGTCTAAGAATAATGACGTATTGTGAAATTGTTAATA 480  
 TATATNATACTAAAAAATATGTGACCATGAAACTATGCAC 520  
 CTATAATACTAAATATGAAATTTACCATTTGCGATGTG 560  
 TTTTATTCACTTGTGTTGTATATNAATGGTGAGAATTAA 600

610 620 630 640

---

AATAAAACGTTATCTCATTGCAAAATATTTATTTTAT 640  
 CCCATCTCACTTAATAATAAAAATCATGCTTATAAGCAA 680  
 CATGAATTAAGAACGTGACACAAAGGACAAAATATAAAAGT 720  
 TATTAATAGCCATTGAAGAAGGAGGAATTAGAAGAGG 760  
 TAGAGAAAATGGAACATTAACCCCTACACTCGGAATTCCCT 800

810 820 830 840

---

GAAGCAACACTGCCAGAAGTGTGTTGGTATGCACTGGT 840  
 TCCTTAAGTGGCTGTGATTAATTATTGAAAGTGGGGTGT 880  
 GAAGACCCCAACTACTATTGTAGAGTGGTCTATTCTCCC 920  
 TTCAATCCTGTCAATGTTGCTTACGTATTTGGGAAC 960  
 TGTTGTTGATGTGTATGTGTTATAATTGTTACATT 1000

1010 1020 1030 1040

---

TTAATTGAGCCTTTATTAACATATATTGTTATTTTGTC 1040  
 TCGAAATAATTTTAGTTAAAATCTATTGTGCTGATAT 1080  
 TGGTGTGAATGCTGTACCTTCTGACAATAATAATATNC 1120  
 GACCATGAATAAAAAAAAAAGTGGGTTCCCGGGAA 1160  
 CTAAGCAGTGTAGAAGATGATTTGACTACACCCCTCTTA 1200

.

Figure 11 cont.

## alpha-SYN exon 7

1210 1220 1230 1240  
GAGAGCCATAAGACACATATTGACACATATTGACACATTCAA 1240  
GGCTCTGAGAGAATGTGGTTAACTTTGTTAACTCAGCAT 1280  
TCCTCACTTTTTTTAAATCATCAGAAATTCTCTCTCT 1320  
CTCTCTCTTTCTCGCTCTTTTTTTTTTTTT 1360  
TTTACAGGAAATGCCTTAAACATCGTTGGAACTACCA 1400  
1410 1420 1430 1440  
GAGTCACCTAAAGGGAGNATCAATTCTCTAGGACTGGAT 1440  
AAAAATTTCATGGGCCTCCTTAAATGTTGCCAAATAT 1480  
ATGGAATTCTAGGGGTTTCCNTAGGGGAAGGGTTTT 1520  
TCTCTTTCNGGGGAGGATCCTTAACNCCCCNGGGGG 1560  
NGCCCCGAAAATAAACTTGGNGGGGGNAAAATT 1596